IN THE CLAIMS

Amend the claims as indicated below.

Claims 1-19 (canceled).

1 20. (currently amended A GPS receiver, comprising:

2 a first GPS antenna coupled to a digital memory, the digital memory storing first

3 digitized signals obtained through the first GPS antenna;

4 a second GPS antenna coupled to the digital memory, the digital memory storing second

5 digitized signals obtained through the second GPS antenna;

6 a digital processor coupled to the digital memory, the digital processor processing the

7 first digitized signals after being stored in the digital memory to provide first position

8 information and processing the second digitized signals after being stored in the digital memory

9 to provide second position information;

10 a receiver, including data detection circuitry configured to decode data encoded upon a

11 spread spectrum modulated signal ~~received from the GPS~~ using a matched filter residing within

12 the receiver, the data being demarcated into successive data epochs; and

13 wherein the matched filter decodes periodic phase shift data encoded upon the signal by

14 phase shifts of the data epochs.

Claims 21-27 (canceled).

1 28. (original)   A method of tracking a remote object comprising the steps of:

2 fitting a remote object with a positioning sensor configured to receive and store

3 positioning information when the remote object is in a fix position;

4 positioning the remote object in a fix position such that the positioning sensor is capable

5 of detecting an activation signal;

6 receiving and storing a predetermined amount of data in the positioning sensor, the data

7 comprising position information;

8 processing the data to determine the location of the fix position;

9   decoding data encoded upon a signal using a matched filter, the data being demarcated

10   into successive data epochs; and

11   decoding periodic phase shift data encoded upon the signal by phase shifts of the data

12   epochs using the matched filter.

Claim 29 (canceled).

1   30. (original) A computer readable medium containing an executable computer

2   program for use in a digital processing system, the executable computer program when

3   executed in the digital processing system causing the digital processing system to perform the

4   steps of:

5   performing a plurality of convolutions on a corresponding plurality of blocks of sampled

6   GPS signals to provide a plurality of corresponding results of each convolution;

7   summing a plurality of mathematical representations of the plurality of corresponding

8   results to obtain a first position information;

9   decoding data encoded upon a signal using a matched filter, the data being demarcated

10   into successive data epochs; and

11   decoding periodic phase shift data encoded upon the signal by phase shifts of the data

12   epochs using the matched filter.

Claims 31-36 (canceled).